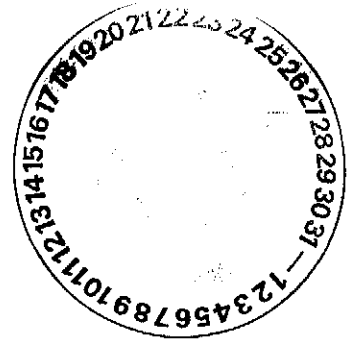




February 25, 2008

Mr. Donald Herndon
Environmental Specialist
NCDENR Division of Waste Management -Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, North Carolina 27605



RE: Well Abandonment Report – MW-2 and MW-9
Red Rock Disposal, LLC C&D Landfill, Permit No. 92-28
Holly Springs, Wake County, North Carolina

Dear Mr. Herndon:

Richardson, Smith, Gardner, and Associates Inc. is submitting this letter on behalf of Red Rock Disposal, LLC (Red Rock), a subsidiary of Waste Industries USA, Inc. (Waste Industries), to document the well abandonment conducted on February 15th, 2008.

Two monitoring wells, MW-2 and MW-9, required abandonment. Their locations are shown on **Figure 1**. Well MW-2, located south of the landfill, was a permitting piezometer that was not part of the monitoring well network. This well had been driven over by a piece of heavy equipment. Well MW-9 was located in the Phase 1C-2 construction area. Construction of Phase 1C-2 began approximately three (3) days after the well abandonment.

Observations of well MW-2 showed the metal casing was flattened and the concrete pad was broken. Well MW-9 was found to be in good condition. A back hoe was used to remove the steel well casings and concrete pads at each location. Upon removal of the well casing of MW-2 measurements of the depth to water and depth to well bottom were taken. These measurements were also taken at MW-9 prior to abandonment. These measurements are included in **Table 1**.

Well sites MW-2 and MW-9 were abandoned in accordance with the State procedures for permanent abandonment of wells. Grout was tremie-piped to fill both wells from bottom to top after the metal casing and concrete pad were removed. David Barron, a licensed driller with Engineering Tectonics, P.A., performed the abandonment services under the supervision of Joan Smyth, P.G. of RSG. The well abandonment record and original boring logs are included in **Attachment 1**.

If you have any questions or require any additional information, please contact me at your earliest convenience (919) 828-0577 ext. 122 or by email at joan@rsgengineers.com.

Sincerely,

Richardson Smith Gardner & Associates, Inc.

Joan A. Smyth 2/25/08

Joan A. Smyth, P.G.
Senior Hydrogeologist



Attachments

cc: Don Plessinger – Red Rock Disposal
David Pepper – Waste Industries
Shawn Carrol – Waste Industries

Figure 1

Table 1

**Richardson Smith Gardner & Associates****Engineering & Geological Services**

Table 1
Well Abandonment Data
Red Rock C&D Landfill
Holly Springs, North Carolina

Well	Depth to Water	Depth to Bottom
MW-2	3.47	20.02
MW-9	10.65	32

Measurements (in feet) collected at time of abandonment on 2/15/08

Measurements for MW-2 collected after removal of steel casing and concrete pad and are approximately from ground surface.

Attachment 1



WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION

2089

1. WELL CONTRACTOR:

David Barron

Well Contractor (Individual) Name

Eng. Tectonics

Well Contractor Company Name

STREET ADDRESS 1720 VARGRAVE ST.

W-Salem N.C. 27107

City or Town State Zip Code

336 - 724-6994

Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) MW#2

STATE WELL PERMIT # (if applicable)

COUNTY WELL PERMIT # (if applicable)

DWQ or OTHER PERMIT # (if applicable)

WELL USE (Circle applicable use): Monitoring Residential
Municipal/Public Industrial/Commercial Agricultural
Recovery Injection Irrigation
Other (list use)

3. WELL LOCATION:

COUNTY Wake QUADRANGLE NAME

NEAREST TOWN: Holly Springs

7130 New Landfill Dr. 27540

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other
(Circle appropriate setting)

LATITUDE

LONGITUDE

May be in degrees,
minutes, seconds, or in a
decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and
attached to this form if not using GPS.)

4a. FACILITY. The name of the business where the well is located. Complete 4a and 4b.
(If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable)

NAME OF FACILITY

STREET ADDRESS

City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Don Plessinger

STREET ADDRESS 7130 New Landfill Dr.

Holly Springs N.C. 27540

City or Town State Zip Code

919 - 557-9583

Area code - Phone number

5. WELL DETAILS:

a. Total Depth: 20' ft. Diameter: 2" in.

b. Water Level (Below Measuring Point): 3.47 ft.
Measuring point is 6.5 ft. above land surface.

6. CASING:

Length Diameter

a. Casing Depth (if known): 20' ft. 2" in.

b. Casing Removed: ft. in.

7. DISINFECTION: N.A.

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Sand Cement

Cement lb.
Water gal.

Cement lb.
Water gal.

Bentonite

Bentonite lb.
Type: Slurry Pellets
Water gal.

Other

Type material EASY GROUT
Amount 40lbs 27 gals water

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Grout Well from
Bottom To Top, Remove
Metal Casing + Top 3' of 2" PVC

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 2-15-08

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

David Barron

2-15-08

SIGNATURE OF CERTIFIED WELL CONTRACTOR

DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE

(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

DAVID BARRON

PRINTED NAME OF PERSON ABANDONING THE WELL



the HUTCHINSON GROUP, Ltd.
Consulting Earth Scientists

Murrysville, PA

MONITORING WELL LOG

WELL NO. MW-2

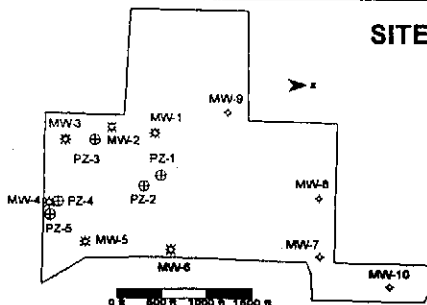
TOTAL DEPTH 25'

PROJECT INFORMATION

PROJECT Red Rock Landfill
SITE LOCATION Holly Springs, North Carolina
ADDRESS Rex Road (State Route 1127)
ELEVATION GS 260.46 PVC 262.13 ft amsl
LOGGED BY Peter Weir
DRILLING DATES October 3, 2000
DRILLER & CO. Richard Simmons Drig.
RIG TYPE Canterra 250
DRILLING METHOD HSA 4.25, Air Rotary
SAMPLING METHOD Split-spoon
NOTES: Drilled dry; WL 10/13/00 20' bgs

DRILLING INFORMATION

SITE LOCATION



▽ Water level during drilling
▼ Water level in completed well

Page 1 of 1

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	BLOWS/6"	WELL COMPLETION	WELL DESCRIPTION
0						Well cap and lock 2'x2' Cement pad Grout 0' to -1'BGS
		ML	SILT: Organic SILT: Moist, fine yellowish orange silt.			Bentonite chips, hydrated -3' to -1' BGS
-5		CL	CLAY AND SILT: Medium dense, moist, light gray with yellow orange mottling, becoming gray.	5-8 18-12		
-10			SAPROLITE: Rock chips, from fine to coarse sand and fine gravel, weathered. CONGLOMERATE: Hard chips, fine gravel.	8' HSA Refusal		Casing 3' to -10' BGS: Sch. 40 PVC. Screened Interval -10' to -20' BGS: 2" Sch. 40 PVC 0.010" slot screen.
-15				fracture		Gravel -3' to -20' BGS
-20				fracture		
-25						



WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2089

1. WELL CONTRACTOR:

DAVID BARRON

Well Contractor (Individual) Name

Eng. Tectonics

Well Contractor Company Name

STREET ADDRESS 1720 VARGRAVE ST.

W-Salem N.C. 27107

City or Town State Zip Code

336 - 724-6994

Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) MW#9

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Circle applicable use): Monitoring Residential

Municipal/Public Industrial/Commercial Agricultural

Recovery Injection Irrigation

Other (list use) _____

3. WELL LOCATION:

COUNTY Wake QUADRANGLE NAME _____

NEAREST TOWN: Holly Springs

7130 New Landfill Dr. 27540

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other

(Circle appropriate setting)

LATITUDE _____

LONGITUDE _____

May be in degrees,
minutes, seconds, or in a
decimal format

Latitude/longitude source: GPS Topographic map

(Location of well must be shown on a USGS topo map and
attached to this form if not using GPS.)

4a. FACILITY - The name of the business where the well is located. Complete 4a and 4b.
(If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) _____

NAME OF FACILITY _____

STREET ADDRESS _____

City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Don Plessinger

STREET ADDRESS 7130 New Landfill Dr

Holly Springs N.C. 27540

City or Town State Zip Code

919 - 557-9583

Area code - Phone number

5. WELL DETAILS:

a. Total Depth: 32.0 ft. Diameter: 2" in.

b. Water Level (Below Measuring Point): 10.65 ft.

Measuring point is 3' ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 32' ft. 2" in.

b. Casing Removed: _____ ft. _____ in.

7. DISINFECTION: N/A

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Sand Cement

Cement _____ lb.

Cement _____ lb.

Water _____ gal.

Water _____ gal.

Bentonite

Bentonite _____ lb.

Type: Slurry _____ Pellets _____

Water _____ gal.

Other

Type material EASY Grout

Amount 40lbs 27gals water

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Tremie Grout Well from
Bottom To Top, Remove
Metal Casing - top 3' of 2" PVC

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this
form showing total depth, depth and diameter of screens (if any) remaining
in the well, gravel interval, intervals of casing perforations, and depths and
types of fill materials used.

11. DATE WELL ABANDONED 2-15-08

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE
WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF
THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

David Barron

2-15-08

SIGNATURE OF CERTIFIED WELL CONTRACTOR

DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE

(The private well owner must be an individual who personally abandons his/her residential well
in accordance with 15A NCAC 2C .0113.)

DAVID BARRON

PRINTED NAME OF PERSON ABANDONING THE WELL



the HUTCHINSON GROUP, Ltd.
Consulting Earth Scientists

Murrysville, PA

PIEZOMETER LOG

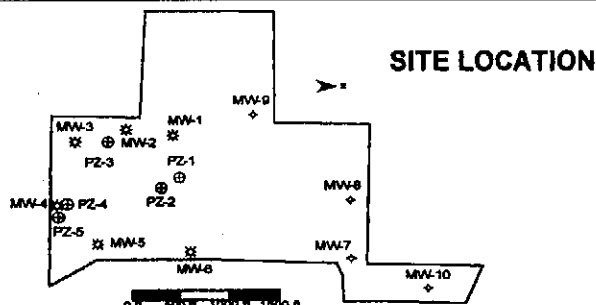
WELL NO. MW-9

TOTAL DEPTH 37'

PROJECT INFORMATION

PROJECT Red Rock Landfill
SITE LOCATION Holly Springs, North Carolina
ADDRESS Rex Road (State Route 1127)
ELEVATION GS 298.44 ft, PVC 300.69 ft amsl
LOGGED BY Peter Weir
DRILLING DATES October 16, 2000
DRILLER & CO. R. Simmons Drig. T. Tryhuba
RIG TYPE Canterra 250
DRILLING METHOD HSA Air Rotary 6.875"
SAMPLING METHOD Split-spoon
NOTES: Drilled dry; WL 10/17/00 7.00' bgs

DRILLING INFORMATION



SITE LOCATION

▽ Water level during drilling
▼ Water level in completed well

Page 1 of 1

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	BLOWS/6"	WELL COMPLETION	WELL DESCRIPTION
0			CLAY AND SILT: Light gray with yellow orange mottles, moist.	3-4		Well Cap and Lock
		ML/CL		4-7		Surface 2'x2' cement pad.
				8-14		Grout -0' to -1' BGS
				23-17		Bentonite chips hydrated -1' to -4' BGS
		CL	CLAY AND SILT: Light brown, 25% fine to medium sand.	8-16		
		CL		36-42		
		CL	CLAY: Gleyed gray with light brown mottles, moist.	8-17		
				34-15		
			CLAY: Gleyed gray, root traces, moist.	50/2"		
-10						Casing 3' to -22' BGS: 2" Sch. 40 PVC
			CLAY AND SILT: Light brown,	13.4'	HSA	
			CLAY: Gleyed gray, root traces, moist.	Refusal	fracture	
-15			SAPROLITE: Red brown, soft, fine grained.			
			CONGLOMERATE: Red brown, very hard, fine grained.	fracture		
-20				fracture		
-25						Screened Interval -22' to -32' BGS: 2' Sch. 40 PVC, 0.010"-slot screen.
-30						Gravel -4' to -32' BGS
-35						Hole caved in to 32'